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## No. O U CMSTM/A LATEST NEWS <br> \title{ \section*{No. O U CMSTM/A LATEST NEWS <br> <br> QUICRSIIVA 

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## USIVE•NEW PROGRAM PRORE EXCIUSIVE•NEW PR

Meet the perils of refuse in

## TRASHMAN - Commodore 64 c7.95

The job may look easy but only you know the hazards. Speeding cars, cyclists, vicious dogs, over-reacting in the transport cafe or one too many in the pub! A Trashmans lot is not an easy one. Discover just how difficult for yourseif in TRASHMAN on the Commodore 64

## ESCAPE \& 3D TUNNELCommodore $64 £ 7.95$ each. Follow the thrils!

 What lies in the tunnel's depths? Flying bats, leaping toads, scurrying rats, crawling spiders and there may be more... All appearing live in the dreaded 3D TUNNEL.Meanwhile, in the maze on the estates, what horrors lurk in the hedges? Where is the axe hidden? What prehistoric terrors will trap you? Can you sunvive the dinosaurs and the pterodactyls? Find out in ESCAPE If you dare! Available on the Commodore 64.

## GATE CRASHER - BBC/ ELECTRON $£ 6.95$

An intoxicating game for the BBC and ELECTRON.
Do you enjoy being killed by aliens? Has your keyboard melted away under the heavy artillery? Do you have nightmares of swooping birdmen?
If so this is the game for you ... it has none of these!
GATE CRASHER is a game of skill and strategy that will test your mind to the limits, PLUS you will also have the opportunity to WIN $£ 200$ !
QED??


## ELECTRO-ART - Electron $\mathbf{1} 14.95$

Son of BEEB-ART! Create your own works of art with this simple to use, yet sophisticated feature-rich art tool which includes a full machine code 'Paint' routine allowing you to colour fill any shape. ELECTRO-ART is supplied in a box with a full instruction manual.

VELNOR'S LAIR - Oric $1 /$ Atmos $£ 6.95$
Battle the evil Wizard Veinor in the
caves of Mount Elic. VELNOR'S LAIR is simply the most enjoyable adventure you will play on your computer!

MINED OUT For Bill the worm. Oric 1/Atmos £6.95
Following his success on the SPECTRUM, ELECTRON, BBC, LYNX and DRAGON, Bill the worm is now appearing in MINED OUT on the ORIC 1/ATMOS computers.

## COMING SOON <br> ANT ATTACK - Commodore 66 58.95

The outstanding Soft-Solid 3D graphics of the breathtaking city of Antescher are now available on the Commodore 64. Battle the giant ant to save your hero!

COMING SOON
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Fearless Fred, the intrepid
Archaeologist, searches the creepy catacombs below the torrid tomb of Tootiecarmoon!

COMING SOON
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From the advanced programming project division of the SOFTWARE STUDIOS - GAMES 84, an Olympiad spectacular!


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FKD2：MUSIC MAKER by Devid Mmrth t t 大 t T－LUDO by Roy Holllogworth
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Arcade aetion with Rivetsf You have to pick up all of the rivets left fying mound by your morkmetes．The boss is timing you wo you had beter be quick．Beware the bennma skies and don＂t run too quick at It＇sal long why slown lo the sound， 5 skit leveli， 21 tloons．Timer．＂This it it musi for all fame players．＇CHARSET TWO（PICA）is the mecoad off－the－thell churscter fet for your own bimes． instructions included．

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## NEWS

## Rabbit

## From from page

Company, said several offers had already come in. Rabbit may either be sold as a package with its duplication arm, Soft Copy, or the two may be divided.
Miss Lamont said most of the 28 staff now had other jobs apart from two who were unemployed and two still at the company's premises in Wealdstone, near Harrow.

And she had also been offered several jobs.
Miss Lamont said: "] think the shake-out among software companies has begun - 1 know a lot of software houses with problems. I'm absolutely sure a lot of them are going to go down."
Mr Crocker said his staff were at Rabbit's offices drawing up a list of assets. He expected the company to be sold by sealed tender.

- Alan Savage, 36, formed Rabbit Software four years ago with Miss Lamont. He hung bimself in a copse with his leather belt after a motorway accident.

Rabbit's liquidator is Stuart Edgar, 59 Myddelfon Sq, London ECIR IXX

## Marks

## From fromt page

Marks and Spencer's books department.

He said software which had been previously published was being extensively improved and that the software house would be credited on the packaging.

And he stressed; "We are not inviting software companies to submit titles to us."

M\&S boasts that 90 per cent of its products are British made. But Mr Maynard said that the software will be 100 per cent British.

Marks and Spencer, 40 Bowling Green Lane, London ECI ONE

## Congrats winners

Here's the solution to our Doctor Soft wordsquare competition: Horizontal: Approach, Navigation, Wings, Rotate, Boeing, Flight Plan Altitude, Stewardess, Altimeter. Verical: Runway, Heathrow, Gatwick, Knots, Pilot, Simulator, Flaps, Take Off. Disgonal: British Airways.
These are our 105 winners of Doctor Soft's 747 flight simulator: Lucy Shanahan, Cambridge; Mark Spain, Aylesbury; Audrey Lewis, Ilford; Alan Kcarney, Co Down; Mr \$ R Lacke, Epsom; Mrs M Pearson, Kilmarnock; Mr A Jones, Manchester; Richard Williamson, Norfolk; Natalie Read, Woodbridge: Janice Curry, Northumberland; Stuart Pierce, Lancashire; David Moxey, Aberdeen; R Battams, London SE3; Christopher Rugh, Sale; Mr C Crane, Stoke-on Trent; Mark Price, Weybridge; Trevor Floyd, Birmingham; Andrew Medcalf, N Humbs; Roy Tacchi, E Yorks; David Smith, Howbray; Mr P J Finkill, Tyne \& Wear; R Carroll, Wilts; William G Barket, Tyne \& Wear; Tahir Saleem, Gwent; Sarah Parrish, Norfolk; Philip Coyne, Derby: Graham Rowley, Worksop; John Gordon, Glasgow; Andrew Brooks, Hucknall; Kevin Finn, S Yorks; H T Pattison, Camborne; Mr Roger Penny, Kiddlington; Vicki Blundell, Hertfordshire; Neil Hoare, Norfolk; Mr J D Hewit, Coventry; Brian McGuckian, Co Antrim; Michael Nelson, Warwickshire; Mrs A Griffiths, Wallington; Alison Beasley Somerset; David Lacy, Woodthorpe; Mr R A Worton, Sheffield; Mr Robert Ovens, Chettenham; Mr E G Bayliss, Alum Rock; James G Scott, Aylesbury; Chris Gough, Stoke-on Trent; Mark Walshaw, S Yorks; M Booth, Huddersfield; Mr Brian Mawson, Berks; Mr K Harper, Sittingbourne; J Larkin, Leicestershire; Carl Duckett, Mid Glamorgan; Mr R

## Baptism of fire

Here's an amazing story of a computer which doesn't give up. Rudi Westfold's house was hit by fire, damaging his VIC-20 among other valued possessions. It sulfered exposure to severe heat, turning black and half-melting. Then it was swamped with water by the firemen, and still bears the tidemarks.
The surprising thing is that
the computer lives on after its baptism of fire. It still works as well as the day he bought it.
Rudi lives on the Isle of Grain, in Kent and uses his computer in his business. He works from home for a Swiss pharmaceutical company, and he has now replaced his fire damaged computer with another VIC-20.

Poston, Horsham; Wayne Parker, Birmingham; R W Sluman, Surrey; Damian Evans, Jersey; Miss N Advani, Southgate; J Hodgson, Bristol 6; A F Turner-Howie, Basingstoke; Master J Reid, Kent; A B Goode. Orpington; Adrian Hall, Lancashire; F A Beale, Dorset; Mrs J Boydon, Middx; J R Moss, Warrington; Peter A Scouler, Southampton; Chris Shelley, Colchester; Andrew Cryer, Somerset; A R Walker, Sutton; Robert A Smith, Gtr Manchester; Mr P C Skelton, Cornwall; Brendan Fallow, Cheshire; Andrew Pridmore, Slough; Shaun John McMinn, Skipton; Mr M V Priestman, Rubery: Raymond McLoughlin, Belfast; C I Collins, Co Durham: Mr A T Bewley, Preston; A Walker, Surrey; H R Appleby, Cramlington; K Hayward, Cheadle; P J Ashforth, Kingston-upon-Hull; G Davis, Hampshire; S W Smith, Kent; Miss Tracy Brewer, MidGlamorgan; Mr B Merridan, Herts; Andrew Carr, Berkshire; Susan Hastings, Luton; $j$ Alison, Clermiston; D J Pointer, Cleveland; Mrs G B Jenkins, Cornwall; David Shearer, Greenock; Brian Roberts, Merseyside; Mr P Wormall, Hertfordshire; Neil Precious, London EC1; Andrew Dodd, Armitage Nr Rugeley; N Darken, South

Woodford; M J Gough, Hersham; C Marshall, Normanton; William Hill, Berwickshire; S J Clough, W Lothian; Steven John Solsby, Cumbria; Mr P Botton, Bitton; Mr M Thornley, Notts; Mr Paul Green, Farnborough; Mr M Parfitt, Surrey.

## Slashed prices

Audiogenic has announced price cuts on many of its best selling games for the Commodore 64 and VIC-20.
Motor Mania and Renaissance are down from $£ 8.95$ to £5.95, while Bonzo for the VIC-20 is also reduced to $£ 5.95$ Grandmaster's price has been halved from $£ 17.95$ to $£ 8.95$ for cassette and $£ 12.95$ for disc.
Martin Maynard, managing director, commented: "Because of the huge success of our software, Audiogenic is now able to pass benefits directly to the customer in the form of lower prices!'
He continued: "Our policy of bringing the cream of software to the marketplace has paid off and we expect to be announcing further price reductions in the near future." Audiogenic, PO Box 88, Reading, Berks

## APILIN

Cheetah Marketing Ltd. sincerely apologise for developing their latest computer peripheral. This will have the effect that your existing joystick is just about to be completely outdated.
However, on August 22nd you will be able to experience the evolution of the most sophisticated computer peripheral ever developed. The age of the Bodra is dawning.
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# High-tech Olympic Games 

Are you ready for the high-tech Olympics? Well, the city of the angels (LA) certainly is. I don't know how many athletic records are going to be set here this summer, but as far as comptuer applications and communications are concerned, there will certainty be a few. For example, during the games, the toral number of afhietes, officials, journalists and staff will number about 50,000 . These people will be using noughly $\$ 50$ million worth of computers, electronics and related equipment.

That is certainly a new necord. Using shat stuff, they will be able to send messages to each other via computer ferminals as well as by more conventional means. They will be able to leave messages for ofther athletes necorded in one language and played back in the athlete's native tongue. Callers from overseas will be able ro leawe messages recorded in their native tongue which can be relayed over the regular (public) phone system.
fBM, Motomola, and Americon Telephone and Telegraph (AT\&T) are the main movers and shakers of the communications and computer networks. And since some of the people using these devices will have no or almost no experience with them, everyihing, as one engineer put it, has got to simple or it will never be used ar all.

AT\&T is installing roughly J 700 computer terminals and abouf 300 printers throughout the Olympic site. These will be finked by If Western Electric $3 B$ mainframe compufers. Applicarions include electronic mail, bulletin board service, relaying the results of events, and relex. Tied in with that system is another communications system devised by Motarola. These involve the use of over 3000 wineless paging unirs.

If will work like this. If a message is sent via a computer terminal, the sender of the message will be able to page the competitor over the radio-controlled paging system and have the first 80 chanceters of the message appear on a one-line LCD display on the paging device itself. If the message turns out to be longer than 80 characters, the person neceiving the message can go to the nearest computer terminal to raceive the entire message.

IBM is also making a significant contribution. The firm is installing about 200 Display Writer word processors and an audio system which allows a caller to recond a message for someone who can then access if with a pre-arranged code number. Instructions for the use of this system will be made available in any one of 10 different languages and the messages can, of course, be left in any language. Uf athletes have been left messages on the system, they will see their names scrolling up the screen of various IBM Personal Computer VDUs scaftered through the site.

High fechnology has had a direct impact on some of the events too, especially in the all-important aspect of determining finish results. In swimming events, a special system was rigged up using a touch pad made of quartz strips set on aluminium panels. The bi-metallic unil sets up an electric current which feeds a detection circuil whenever touched by a swimmer's hand. This system is unaffected by waves and water pressure (and of course human judgement).

In track and field events, an infrared beam will be used to mark the finish line and the clock for each competitor. Unilike simpler electronic finish lines, this one is impervious to inferference conused by shadows, reflections, and of course camera strokes.

Bud Izen, Fatrfield, California

# Win Caesar the Cat toy and game - from 

and
and

This week we are offering you the chance to win a cuddly cat as well as the game based around him. The feline character in question is Caesar - a cute black and white furry creature with a mouse nestling cosily on his right paw.
The game is Cnesar the Cal from Andromeda, markeled by Mirrorsoft. And we're giving away 64 soft foys as wetl as 64 copies of the came - for 48 K Spectrim, Commodore 64 or BBC 8. You could be the proud owner of Caestr in toy and game version!

Caesur takes his duties seriously as hausehold protector. The trouse is riddled with mice and Caesar searches out those who are servenging in the larder.
It's a grod job cars are renowned for being flees of foot und agile, for the shelves on which the mice are pienicing are strewn with crockery. Although Cacsat Is a treasured member of the fumily, his owners are understandably furious when be brenks any plates.

Once Caesar corners I mouse, he removes it from the kitchen and renews his hunt for the ravenous rodenss. But time is running out and can only be boorred when he calches more mice.

Graphics, atimation and sound are outstanding. This is a challeng. ing game of skill for all the family, Caesar the cuddly toy will soon become a popular eddition to your femily if yout win. The mouse is fixed to his paw by Velero and is detachable so that he can play with it.
The game selis in the shops for E6.95 for the Spectrum and BBC) and 88.95 (Commodore 64) and Caesar soft toys wrould cost 58.95 , So each prize is worth E 17 - with a total value of $\mathrm{f1}, 000$. So what are you waiting for?
The competition is familier to all you HCW regular readers - jusi spot the differences betweed the two cartoons, mark them and write the number you found on the back tof your envelope.

Good luck and happy hunting!

## How to enter

Study the two chrioons - there are a namber of differences between them. Circle the differences ont

carton B and seal the cartoon and coutpon in in envelope. Write clearly the number of differences you found on the back of the envelope.

Pest your entry to Mimrorsoft Competition, Home Computing Weekly, No. I, Goiden Square, London W1R 3AB. Entries close at first pont on Friday Auguat 17. 1984.

You may enter is many times as
yout wish, bus cach entry must be on an official coupon - not a copy and sealed in it separate anvelops.
Imporianis please follow carefully the guideliner on entering incomplete coupans and entrien in envelopes with no numbers on the back cannor be considered. If yous gre E wianer, the coupon will be thed was label to send your prize so ciear writing is essential.

## Mirrorsoft Competition

## Entry Coupon

## Name

Address

## post code

## Number of differences found

Computer owned (48K Spectrum, Commodore 64 or BBC C) Comptece clearly and futly - if you are a winter this will uci as a tabel for your phife Poss
 mumber of difirmate of the beck of your nuvelope.



Tape NCHazinies
Great games, great utilities all for only £3.99. Available for Spectrum, Atarl, UK 20, BBCB, and CBM 64 through W.H. 5 mith, Menzies and computer stores.
Really use your computer this summer.

## Clever Clogs

8 great fun games for whizzhids. Change the difficulty with data packs on Science. The Ats \& General Knowledge.

On sale in W.H. Smith. Keep your Clever Clogs busy all summer long! Availabie for Spectrum at $£ 6.95$.

## Hind Cames:

Recently launched, the new name in quality strategy and adventure games. Top writers and programmers open the door to the world of imagination and fantasy.
Have an adventure this summer with Star Force Seven, Quest for Eternity, and

Orion Quest. Spectrum $£ 7.99$, BBC B, and CBM 64 f9.99.

## Fall of home

Five million barbarians, an army or two of Persians, several thousand upset Armenians, fifty legions of itinerant: ltalians . . . . . . and you!
Mave a holiday at horne and save civilisation. Available for Atari, BBC $B$, Spectrum \& Commodore 64.

## 



## The House for Heroes!

The Game Lords join the Argus Press team. Consistently in the top ten with great games like Ant Attack, Boogaboo, Fred, Mined Out and Snowman. Prices from $£ 4.95$ to $£ 7.95$. Available from W.H. Smith, Boots and Menzies and leading Computer Stores worldwide.

## 100 CALL CLEAR <br> 110 CALL SCREEN（2） <br> 120 CALL CHAR 100 ，＂3C7EFFFFFFFF？ E3C＂） <br> 130 CALL CHAR （104，＂0800080008000 8＂）

140 CALL CHAR（112，＂00001818FFFFF F＂）
150 CALL CHAR（113，＂000020702＂）
160 CALL CHAR（128，＂00001818FFFFF F＂）
170 CALL CHAR 136, ＂R963F33F9F1F7 FFF＂）
180 CRLL CHAR $137, " 95$ C6CFFCF9F8F EFF＂）
190 CALL CHRR（138，＂FFFFIF9F3FF36 3月9＂）
200 CALL CHAR 139 ，＂FFFEFSF9FCCFC 695＂）
210 CALL CHARく144，＂30303C303C3C3 C3C＂）
220 FRR I＝2 TD 8
230 CALL CBLDR（1，11，1）
240 NEXT I
250 PRINT TAB（10）：＂MINEFIELD＂：＂

＂DO YロU WANT INSTRUCTIONS＂：＂ CY
呎 N）＂：：：：
260 CRLL KEY（0，K，S）
270 IF $\mathrm{S}=0$ THEN 260
280 IF（ $K=78)+(K=110)$ THEN 680
290 IF $(K=89)+(K=121)$ THEN 310
300 GロTロ 250
310 RESTORE 3000
320 CALL CLEAR
$330 \mathrm{FDR} \mathrm{I}=1 \mathrm{TO} 10$
340 REFI $\mathrm{AS}, \mathrm{B}, \mathrm{C}$
350 FOSUB 2450
360 NEXT I
370 FDR DE＝1 TO 400
380 NEXT DE
390 CALL CLEAR
400 RESTDRE 3030
410 FRR I＝1 TO 5
420 READ $A(S, E, C$
430 GOSUE 2450
440 NEXT I
450 GロTD 720
460 CALL CLEAR
470 A\＄＝＂HIGH SCDRES＂
$480 \mathrm{~B}=1$
$490 \mathrm{C}=10$
500 GロSUB 2450

$520 \mathrm{~B}=2$
$530 \mathrm{C}=9$
540 EDSUB 2450


If you know and love the game Bomber，you＇ll drool over this． fi＇s an adaptation of that well known game，but this time you start from the bottom and work your way up．
This game features a mystery bonus which can double your score， 18 levels of play，with increasing difficulty，a mystery blowing－up of the submarine and an end of sheet bonus． Once you have reached 10,000 points you get an extra submarine as a reward for your efforts．The hall of fame records your high scores．
Texas BASIC differs from other BASICs in that you don＇t have direct access to the processor．Instead you use built－in machine code subprograms for sound and graphics．Only statement lines are supported．

## Hinte on coaversion

Clear clear screen
Color（w，b，e）set colour of character；foreground，b colour，e background colour
Char（ $\mathbf{n}, \mathrm{as}$ ）redefine characier a to pixel pattern defined by速
HCHAR（ $\mathrm{a}, \mathrm{b}, \mathrm{c},(\mathrm{d})$ ）place char－ acter c at row a and column b，optionally tepeat dimes
VCHAR（, ，b， $\mathrm{c}_{\mathrm{r}}(\mathrm{d})$ ）place chtar－ acter c sit row and column b，optionally repeat d times vertically
Sound（ $n, b, \mathrm{c}$ ）play frequency b for miltiseconds at volume c
GCHAR（i，b，c）return the ASCII code into variable e of the character at screen row a，screen column b
Key（ $0, \mathrm{a}, \mathrm{b}$ ）return ASCII code into a of key pressed，Return 0 into b if no key pressed
Variable
As get string from data state－
ments
B eharacter row in print
routine
C character columa in print
routine
D skill level
E lives
F submarine coluran
C bomb character
H submarine row
M depth of mine
N volume
O tecond rest variable
P bomb row
O bomb column
R first test variable
I character
V hit
X third rest

## How it works

100－110 set screen colour 120－210 deline character5 $220-240$ set colours
250－300 test for imstructions $\mathbf{3 1 0 - 4 5 0}$ instructions routine $460-740$ high score hall of fame
750－1390 set up screes
1400－1470 flashing mines and start
1480－1710 main game se－ quence
1720－1980 end of sheet bonus
1990－2020 test for bonus sub
2030－2180 lest bomb for hit and bonus
2190－2250 move bomb
2260－2440 hit mine routine
$\mathbf{2 4 5 0} \mathbf{2 4 9 9}$ print at routine
2500－2601 blow up sub routine
2610－2700 game over
2710－2750 test for high scores
2760－2840 set up high scase

2850－2990 sort high scores
3000－3609 a data for print －reagis

Test the waters before you drop the bomb. Watch out for the submarine which blows up without warning, in this game by Jon Dempsey

550 FQR $I=10$ TO 2 STEF -2
560 R $=5$ SF\&
R (W) (1/2) )
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590 EOSUB 2450
6010 NEXT I
E10 FDF $1=10$ TD 2 GTEF -2

$630 \mathrm{E}=(\mathrm{I} * 2)+2$
$640 \mathrm{C}=14$
650 G日 5 LE 2450
660 CALL 90 NIT $-99,110+1+4)$
670 NEXT I

$690 \mathrm{~B}=24$

```
700 C=2
710 60SUB 2450
720 CALL KEY(0.2,5)
730 CALL SDUNIO-99,-4,0%
70 IF S=0 THEN 720
750 CALL CLEMR
760 CALL COLDR < 9,10,1)
700 CALL COLOF(10.16,1)
780 CFLL CLLDR(11,11,1)
790 CFLL C[LDE(12,13,13)
800 CALL CDLDR(13,2,13)
810 CALL COLDR(14,9,1
820 CALL COLOR(15,14,13)
830 CALL COLDR(16,1,1)
840 FOR I=2 TO %
850 CALL CDLDR(I,2,16)
860 NEXT I
870 CALL HCH゙N(1,1,120,96)
880 CALL HCHFR(23,1,120,64,
890 A=0
900 RS="FCINTS="$STRT(R)&"XN**"
                                    910 B=2
                                    920 C=16
                                    930 GnSUB 2450
                                    940 %=1
                                    950 D=6
                                    960 E=3
                                    970 F=2
```

```
980 G=18
```



```
1000 B=2
1010 C=3
1020 G05UB 2450
1030 IF D=18 THEN 1060
1040 H=10+4
1050 GपT\square 1070
1060 H=22
1070 RFNIMMIZE
1080 CHLL HCHFR(4,1,32,608)
1090 CHLL HCHFR(3,1,120,32)
1100 CHLL HCHAR (23,1,120,32)
1110 J=INT(RNO*15)+4
1120 L=INT(RND*32)+1
1130 Y=INT(15*RND)+4
1140 Y'Y=\NT (L*RND)+1
1150 EFLL HCHFR(J,L,159)
1160 CALL HCHAR(Y,YY,158)
1170 FDR I=5 TD 29 STEP 2
1180 14=INT(RND*D)+1
1190 CALL VCHFR(4,I,104,M)
1200 C.FLL HCHAR(M+3,I,100)
1210 CALL SDUND(-50,-5,0)
1220 NEXT I
1230 II=I+1
1240 IF D<>18 THEN 1270
1250 Z=D+1
1260 G口T! 1280
1270 2=0
1280 A\Phi="C月RD="总STFW(Z-6):"x"
1290 B=24
1300 C=3
1310 GपSU8 2450
1320 IHLL H:HMR,24,20,120,%,
13% G0%+IB 13515
1340 GOTO 1400
1350 FDR I=1 TD <CE-1 & STEF 2
1360 CALL EOI|PD(-10,-1,J)
1370 CFLL HCHMR(24;20+1,128)
1380 NEXT I
1390 RETUFN
1400 &ALL KEY(0,K+5)
1410 CHLL CDLDR(9,2,1)
1420 CHLL HCHFR(H,F,112)
1430 CHLL HCHHR(H,F,32)
1440 CHLL S[UNI(-200,500,5,-3,5,
1000,10)
1450 CRLL EDLDP(9,10,1)
1460 |=0
1470 IF g=0 THEN 1400
1480 CHLL HCHAR(H,F,112)
1490 CRLL KE'(O,K,S)
1500 IF S=0 THEN 1530
1510 IF G=0 THEN 25010
1520 IF K=32 THEN 2030
1530 CALL GCHAR(H)F+1:口)
```

```
1540 IF < ( =10 ) + ( प=158)THEN 2500
1550 F=F+1
1560 IF F<32 THEN 1640
1570 CALL HCHAR(H,F,32)
1580 F=2
1590 H=H-1
1600 A$=STRT(G):"x"
1610 B=2
1620 C=9
16% EDS 1E 245%
1640 CALL VCHAR(4,31,32,19)
1650 CALL HCHAR(H,F-1,32)
16EO IF H`S THEN 1480
1670 IF D
0
1680 D=18
1690 GDTD 980
1700 CALL HCHAR(4,1,32,32)
1710 IF G=0 THEN 970
1720 AS="EDNUS"
1730 B=10
1740 C=10
1750 GOSUB 2450
1760 IF G>1 THEN 1820
1770 A$=STRS(G)&". EDME"
1780 B=12
1790 C=10
1800 GOSUB 2450
1810 GOTO 1860
1820 AB=STRW(G)&" RDMES"
1830 B=12
1840 C=10
```



1850 GUSUB 2450
$1860 \mathrm{AT}=$＂D 50 PUINTS EACH＂
$1870 \mathrm{~B}=14$
$1880 \mathrm{C}=10$
1890 GロSuB 2450
1900 स $=5$ TRS（ $6 \times 50$ ）\＆FOINTS＂
$1910 \mathrm{~B}=16$
$1920 \mathrm{C}=10$
1930 EDSUB 2450
$1940 \mathrm{~A}=\mathrm{A}+\mathrm{B}+50$

$1960 \quad B=2$
$1970 \mathrm{C}=23$
1980 EUSUB 2450
1990 IF $\langle\mathrm{A}\rangle=10000 ;(\%=1)$ THEN 200 0 ELSE 970
$2000 \mathrm{E}=\mathrm{E}+1$
$2010 x=x+1$
2020 GロTD 970
$2030 \mathrm{~F}=\mathrm{H}$
$2040 \mathrm{G}=\mathrm{G}-1$
2050 CALL §ロIND（ $-100,-5,4$ ）
2060 ＝F
2070 Q $=$ Q +1
$2080 \mathrm{P}=\mathrm{P}-1$
2090 CALL GOHAR（ $\mathrm{P}, \mathrm{B}, \mathrm{R}$ ）
2100 CALL GCHPR（ $\mathrm{H}, \mathrm{F}+1, \mathrm{Z}$ ）
2110 IF $\quad=100$ THEN 2300

）＊（R＜＞158）THEN 1480
2130 IF $(R=32)+(R=158)$ THEN 2190
2140 IF $R=100$ THEN 2300

```
2150 A=月*2
2160 CALL SDUNI(-150,1000,3,-7,1
0,330,3)
2170 CALL HCHAR(P,Q,32)
2180 हवTO 2:340
2190 CFLL HCHFR(P,Q,113)
2200 CALL SDUND(-50,3000,7)
2210 CALL HCHAR(H,F,112)
2220 IF F=32 THEN 1570
2230 IF Q<32 THEN 2260
2240 CRLL HCHFR(P,0,32)
2250 EपT0 1570
2260 CRLL HCHFR(P,O,32)
2270 CALL HCHAR(H,F,32)
2280 F=F+1
2290 GOTI 2070
2300 U=U+1
2310 CALL VCHFR(4,0,32,P-3)
2320 A=A+50
2330 CALL SDUND<-750,110,2,-7,0,
200,5)
2340 IF ( }\textrm{A}=10000)*(X=1) THEN 23
0 ELSE 2390
2350 E=E+1
2360 x=x+1
2370 GISUB 1350
```



```
192,2)
2390 AS=STR$(A)&"x"
2400 B=2
2410 C=23
2420 GםSUB 2450
2430 IF U=13 THEN 1710
2440 GOTD 1480
2450 FUR T=1 TO LEM\M($)
24E0 Z=RSC(SEGT(AI,T,1))
2470 CALL HCHFR(B,T+C,Z)
2480 NEXT T
2490 RETURN
2500 CALL HCHPP(H,F,15E)
2510 CALL HCHAR(H,F+1,137)
2520 CALL HCHFR(H+1,F,138)
2530 CALL HCHAR(H+1,F+1,137)
2540 FDR I=0 TO 30
2550 CRLL SDUND<-200,-7,I,110,I ,
2560 NEKT I
2570 E=E-1
2580 I=D-1
2590 IF E=0 THEN 2610
2600 GITD 970
2610 A$=STR$(5)㣻"×"
2620 C=9
2630 B=2
2640 Tप%UE 2450
2650 A'$="GAME IVER"
2660 B=12
2670 C=10
```


## T． 29 ／4A FHOCRAM

```
2580 50SUE 2450
2690 FOR DE=1 TO 700
2701] NEXT IIE
2710 CHLL CLEFR
2720 FOR I=2 TO 8
2730 CHLL COLDR(I,7,1)
2740 NEXT I
2750 IF R%V(5)THEN 2760 ELSE 460
2760 W(5)=R
2770 RESTDPE 2050
27G0 FDR I=1 TO 6
2790 FERD FW,C
2000 E=10+(I*2)
2310 1000JB 2450
2820 NENT I
2330 INPUT WF
2840 IF LEN(Ww)>10 THEN 2830
2350 WS(5)=|直
28EO CALL CLEFR
2870 FOR II=1 TO 5
2880 FOR I=1 TD II
2890 IF V(II)<Y(I)THEN 2970
-9010 CRLL SDUM(-99,1100, I, 20,0],
II)
2%10 (%=人缺)
```



## KFTMarketing



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Popl Cede

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Repow Worts，Regent $\mathrm{So}_{1}$ Kimberley，Nott NGi6 2EW Tet： $\mathbf{0 6 0 2} \mathbf{3 8 . 3 9 3 1}$

```
2930
2940 (f(I)=年(II)
2950 V(1I)=$V
2960 WT(II)=WW$
2970 NE:T I
2980 NEXT II
2 9 9 0 ~ 5 В T D ~ 4 6 0 , ~
3000 DATA ***********,1,10, MINEF
IELD, 3,11,***********,5,10,YOUR
SUS HAS RUN DUT DF HIR.7.3
```



```
IN,9,2,H MINEFIELIM,11,2, 口, HA+M
E EIGHTEEN MISSILES,14,% -
3020 IATA TO HIT FLL THE MIAES.
1E.2,YOU GET RN E/TKA SUE FT.19,
3.10000 FOINTS. - 21.2
3030 DRTH THEFE IE H \1%TER; EQ&
US,5,3,WHICH IDLIELES 'S_R SIORE.
,7,2,UEE THE SFRCE BHR TD FIRE..
10,3
3040 DATR GDOD LUIN., 15,10,PRESS
ANY KEY TG FLA(., 24,2
3050 IIGTA CONGFHTILRTIDNS,4,YDUR
SCORE IS,4;DNE OF THE,4,FIYE HI
GHEST;4,PLEFSE ENTER,4
3060 IATA YOUR NAME,4
```


## ADAPTED FROM THE POPULAR T．V．SERJESII



ELOCX－EUSTER is an exciting quiz game for ONE or TWO players and will appeal to a wide range of ages and skils with nine levers of play against the dock The game tests speed of recall involving anticipation of the question as it unfolds across the screen and speed of response dependant on the tevel of play
BLDCK BUSTER is suppled with the FIRST ADDITIONAL OUESTIDN TAPE FREE to maintain the chatlenge of the game．Now avaltable at good computer shops or alrect whth cheque／P of for E5．95 Inclusive，ACCESS and VISA orders taken on our 24 Hour Hotline


## Death star 48K Spectrum E5.50

Amezing Ciames, 39 Maple Dr, Burgest Holl, W Susset RHIS BEX

A very simple loading screen leads to the opltons of keyborrd A curstion, Interface 2 intetfaces (0) cursor joyselck. Thas basic game doesn'l stend up against others and doesn'l make use of the Spectrum's potential in sound, cotbur or graphes.

The ansert announces that yous are plunged into the outer sector of the Deathstar. Flying throusgh the trench you mast deatroy all the blen craft coming at you before possimg through if forse will to rench the ned rector
Furally you must score a direct hit on the reactor cors on Sector mit on the reactor core on sector
0 ind dearoy the Impenal

Deathrtar, saty fit rebuels on the fouth mors as Yam. you te warned that 3D effect evtende to hisers, so butung the enemy requires skith

How mas eabing the sereen constit of a snina with diamond wh a croxs al the base which 7 \& 0 and 0 move arentid The a) ens take some ime to the removed tif evert whale the trench inn't realsok and I hem butung the wall.

A fat, borme pame that would have doar well on a 2 X 81 . J w.
thstructions
plavalulity
praph is

## Forced Route TI-99/aA E6

oluth hims some sumble manouthing 15 requ red
Before the gatie stars you
santess, 10 A stone Road, Shoukpori, Chesture

An intrigung tactical game for two plavers The doplav is an 8 * 8 syuafed grid with four maermekt squmes removed top left ans batiom right are the slarting [M\& by red and bus tounters The atrent is 10 mate the counter प्या if pradper yotr wpponent: starting square.
Jnsade the remaining squares
f the grd are arrewn taludonly
cated when the board was set
up, which pount ti three of eight passumic directionts, It is these mothathari that determune the moves ts you are only able to go in one of the directions shown tha
in eyudre that your upparteal

## Enucties Mematern ETX 2093

Contimental, Stasion La, Witney, fin

Kauckles is comphicated prigrimi) sescuntank. Penso fcu cartrol a charater in a? raillomis gencrated mase of 'ge.phis leenpes, caried roks. Thalividual roks cant be putind oround the lefeen to trap or crush three monates known as rokeaters, which chuse you around. Crushed rokealem is* 'appear et the sornees of the diaplay Lutess rolss are in the way, when they mutectaline at thudom. if a Pols wati free to move when puahed by the player, in diaintegrates, Superficinily the futhe revembles PacoMan, but With a minze you create yourself. The maze also contains magle L squares - objects which you must tane up vertically os hurizontally before you can move on to the next tevel. You ge benur pornts fer catimp frull wh it appears at ratuom At luier levels you ehander white ho ec ciapab e of suplicaung roks ond frate
The graphecs are smooth and colourful, the sound effects art good, athough the backpround zune (as used in Manue Mincr) can be rether irrtiatug for some reason the monsteris and the player are depteted using the graphic shapes from another Memotech game, Blotboo. There are four pages of detailed onsereen instructions
Well-writlen, though rathe: expensive
rastruetions
playability
graphies
valse for money

# How do they play? 

## Read our reviews before you buy - here's a selection for the Memotech, spectrum and the TI-99/4A

## Crazy Cllff T1-99/6A E7

13intsibuted by statntess Sufiware. 10 Alstone Rs, Siock. port, Cheshure

Thus rether odd game is wetl named. The alm is to weate buildings from the outside, serefe Inewer ristede her above avondigs hazards. thave a half. zero, winh may have been due formed memory of some daft 10 my inuompelence A frusratAmerican tryang such asuusi, urg, and, Uugning b) the ape ling only when he got to the top he of 'alla lok Ameritan, game Wasn't rewarded with an extra with reatariahle graphics, Needs man and a freeh sughu r mive Ef, ended BASIC. aystikks. P.B. diffect bundigi The mumenal instructions are in 11 tines on the instrutions malay - the author has provided playabulty only a cursory denonstration - graphics un which you are advised to avord value for money


10\% un which you are advised io avoid ctimbing to the wandow below so "face" is a flower pot will be huried at you, and to avord other harards including lailung bortles

## ft wa matt Lestars

 Thete : $2_{1}$ 人0 a ependo g.test मrnearance from siamme arcoule tharacter of you trinke al that tale I got har farthet with the ground hieor one faie and three čons handows scuppeted hree é ons h hindows scuppered ae rvers 1 meThere is a swore and a fingh

Sepmre, 59 Norbury Grave, Wulaet Newtustic upon tyne NF6 2TB

This panc is divited into thres ecparate pragramm, ench a plece - in kind of jltraw the completion of whath deudy to a thecial offer. Parts 1 and II provide you with pisswords on comphetion, which ore tequased before yom cin altampl parts It [nd III, Unformuntrely, iry as ! on kit, found tond chily pirts I tard if, and onse poall the eontrinaly inagh! comsider is diat alle rechrif ngat the Ratuch bre s mple, uragkitionwald, atd
 ere unl hey to lirid fietn uppealitg, The theme centrer mratend oh chataber called Slonpy had hat Chrisimas: he esetns at combination of two characters: Snmpty atd Drompy The authy of the the griplres far exsects What of the gatmer grablates, whath are lust adequate Gimme 1 bas you a ie nipl ing tel contrer the safe parah itime of solte of St mpy st fercde, xime if I ands you engas ng n is most peculas thrkey shoat. marred by lifdy sprate collishon thecest, and yamet 511. whach falled to liad, apperenty , nvolves drivisig Sloupy hame safe.y Inalrivitinns are adequate, Althosugh Iha programming cosla uise sotrie tightening up lo take advarauge of the speed of Exiended BASTC, Needs Exterded BASIC.
instructionts
playabiny
graphes
value far moncy
$80 \%$
$910 \%$
$74 \%$
$900 \%$

## Clith

## A［1］

Iti reply to Andrew Wiknes＇ let1er（HCW 67）I would like to make n few sugestionts to help hum with the Commodore of adventure game．The Quest．
1 Examine the contems ihereal＇，
2 As with thost adventure games（and life，the biggesi adventure！）fesulis are almost alway achieved after a sequance of events． 3 If the cap fits，wear it
4 To Zebras and not to horses，abbreviate maters and that＇s my password to 3ctesk
5 If at flisil you don＇t susceed the，on（especially With ratling gatest．
I would tell you more， bul you＇d be throwing your dise drive out of the Wincow ihrough boredom unstead＇

If you wish to know more，my dddress is avurable from HCW
（ athy Oxaprine，Paignton． INevon
CTD $x_{1}+1+$

## －17．14

If any readert need hels） with these adventures：The Hobbi：，Adventure Land， Pirate Adventure and Colossal Cave Adventure，I will be glad to help if they send me an 5 a e
I need help with Valhalia I cant fitid Skalor Can someone give me a hand？ Jaha Randle，Adershot， Hanis
？ 3

Thariks，from inother TI owner，for continuing to support us＂TI Tappers＂
the great game in HCW 67 by Phal Ord was a further example of the wanderful graphics，colour and sound capabilites of the much maligned and now stemingly abandoned T1． 99 4A

I found the game great except for one smatl point shere was no score or mith cemasming Fecility， However， 1 hope Phal won＇t mind if I attempt to rejtiedy this with the following alterations to has prograte． 1132 A $\$=$＇SCORE
－＊STRS（P）
MEN＝＊＇\＆STRS
（MEN）
$1134 \mathrm{R}=$
$1136 \mathrm{C}=5$
1138 GOSU日 3000
1645 IF $P=P+10$ THEN

1647 ELSE 1650
1647 GOSCB 1132
2383 IF $P=P+10$ THEN 2386 ELSE 2390
2396 GOSLB 1132
3000 REM PRINT AT ROUTINE
3010 FOR I $=\times$ TOLEN （AS）
3020 CALL HCHAR（R，C I，ASCTSEG\＄（AS，I．

## （1） 1

3030 NEXT 1
340 RETURN
Also for those of us with Joysticks，i have added a touline which will enable the diver to be moved around more casity，Change ibe followins Jines es shown
II40 CALL JOYST （ $1, \mathrm{~V}, \mathrm{~W}$ ）
1150 IF $\mathrm{iV}=\mathrm{O}) \boldsymbol{H}_{\boldsymbol{\circ}}(\mathrm{W}=\mathrm{O}$ ） THE N 1140
1220 CALL JOYST （I，V．W＇
1250 ［ $\mathrm{F}(\mathrm{V}-\mathrm{O})=(\mathrm{W}=\mathrm{O})$
THE N 1440
$12 \%$ IF Wく＞4 THEN
310 IF $\mathrm{W}<-4$ THEN 1350
1354 1F V＜
1390 IF $V<3$ THEN $1440^{\circ}$
1730 CALL JOYST （ $\left.1, V_{i}, w\right)$
1740 If $(\mathrm{V}=\mathrm{OH}+(\mathrm{W}=\mathrm{O})$ THEN 1730
Maurice Rymula，Birmine：合 ${ }^{1}$ गन


Heres how to get more lives on Mance Miner（see J． Dugdale＇s letier，HCW 67） Type＂Verify＂（play on tape）and a verify trror results．
Lead＂＂＂，1，I（load wror）
POKE 16573．234
POKE 16572，234
POKE 16571，234

## SYS 16384

The program will run and the lives wan＇t fun out．To restart，RUN／STOP RESTORE and SYS 16384

Now can someone tell the how to get into chet mode on Revenge？
M．Lwingstenc，Dobetifter， 5 York：


I read Paul Solly＇s letter （HCW 66）about the Sord 45．I know exactly how he feels．However，he＇s lucky he has a dealet near him－ 1 don＇।

If he finds has locat dealer doesn＇t provide the tofiware he needs，he should write to CGL．I have writen to them anany tames and I have nothing but pratse for then heip．

He should alsch try Hamsolt，really sood company．Maybe he and phther M5 readers could contict me with deas and tups about surting an Ms users club

If it wasn＇t for HCW，I thenk most people would never have heard of the MS But why are all the star programs for the Spectrum or CBM 64？How abous a little uncentive to us MS users？
benin Riman，Kylemore。
 Fint

We da fearure Sord proprams when we have good Ifstings to pubtish．If you have exceflent zomes vou have witten，stnd them in for publacation


In reply to R．T．Cooodwin＇s leter（HCW68），I also purchased Sixty Programs for the VIC－20 by Pan Hooks．Since I had probiens wilh several programs．I phoned Pan Books to complath．Ont of thenf staff 10id met they have had probiems with the early version，and if I sern her the first nage mih my nome and address she would send me a new revised book．Pan Books＊addrest is Cevaye Place，London \＄W10

I hope thes heips readers wilh the same problems
D．J．Marshall，Noribolt， Mrddr


I sympathse with R T Goodwin（HCW6g） concerntin the Sikly Programs book published by Pan．
$I$ and a colleague purchased copies of these books for our Commodore 64s．Unforturately，none of the programs we typed in semmed to wark
My colleague phoned the organtsatton concetned． They informed ham that the programs had not been properly tested and there were many errors．He was informed thas the second print of the book was correct
He was also told that if he forwarded the first page of his book to the address shown on that page he would recenve one of the corrected manuscripts．This we did，and since recenving our new books we have had few，if any，problems，I sugerst that R．t Goodwin does the samic and obrasns：a
new book
Surely there should be moral or practical srandards 10 which program hisings should adhere？ Wasting time typing in programs which don＇t work anyway is very annoying Publishing houres should be made to lest every listing before il goes on to general release

More power to the Trading Standards Oftices． 1 say
Paul Keenor，Cardoff

## 1，1，1，

I arn a Tl 99／4A owner and I want to tell you how clificualt if th for tus to get sofiware．You can enthez buy it by mal order or from a dealet who sells TI software．This can be really expenstve

I buy HCW every week and 1 Jike reading the ienters from oiher＇Jexas ownets．，］ enjoy the pames HCW prints：they are very challenging

My cousin bought the T］ hefore me and he influtnced the to buy mane Now we swap games and we don＂t get fed up wath the sme ores
Mort people think the TI g9／4A is \＆waste of money． Oither compuler owners say their micro is beter than ours，I ggrte With Sam Singh（HC＇W 67）and Pedro Magatherus（HC W 68）1hal the Texas is a Ereal computer
So please don＇1 stop supportung us，HCW
R．FIrdi，Cranford，Mddd


I In writing to esk if dnyone can tell me a fool－ proof security program for the Commodore 64． 1 am very interested in programming，although I＇mint very good yet，and t would like a neat prograth to prevent people getting unto my programs．

I have seen a lew of these programs in HCW，but those I heve semn howen＇1 been for my micro．The only programs I do it the moment are your programs， the ones which always work．I agree with all those sentble people who write and tell you how good the programs are，I haven＇t had ome which hasn＇t worked yet，and it have entuyed every one
When I run out of lisungs 1 the to sll down fnd write my lext adventure．f＇m
trying to think up an original one to sell．1n HCW 67 you reviewed Pub Quest I giggled at the plot I would like to do a graphical adventure game bul I haven＇t learned how yel

I want to be able to gel rid of the ？which comes in wien you put in an anput．It looks ugly there，I would also apprectate an anto start program．If you load a program 1yping LOAD inslead of SHEFT／RUN STOP，the program louds bui dressit run．

Inctdemally，with refep－ ence to Robin Elworihy＇s view（HCW 61）if there＇s one 1hing I can＇t stand in＇s peopte going round teiling others not to play gimes on their computers，！love progammang and sil al the keyboard for hours wilh the poor adaptor nearing melt－ down．Alter this，if I fect alke in，I will happily load up Deky＇s Dramands or entoy half en hoth of Hovier Hovver．This gives me a little beeak before I go back to my program．Program＊ mung has been my fovourte hobby ever since I got the muchane
same people do use computers solely for games， but if they want to，let Ahem．I know there is no end to what my computer can do，and that＇s good emough for me．Gamen are $\frac{8}{2}$ break from programming． and programmins it definitely not a sidekick for me
Keth March，Axminster， Leven

Softmare winner


# Caesar the Cat BBC B E6.95 

Mirsorsofe, Holborn Circus, London EC!P IDQ

The screen displays a ktehen shelf laden with food and crockery, However, the little vermins mbble awey at the fond and under your sundance, Caesar must leap from sitelf to shel to calch the neaughty radents.
Scoring system is unusual. You slart with 10,000 pounts and it atiomaticaly goes down as time passet, However, trore is gained by catching a mouse and dumptng it the larder for later consumpion, A huge chunk of your score disappeast if Cuestr knocks dowal any crockery or bangs his head against the wath, The game ends if be krocks the red erockery off the she! or if the sepre goes down to zero.

When Cuessir calches rune mex. a new set of greedier, nıppiet mice come on the scene but they"re worth more ponns!
Not only is this game torally congiral, the sprts-like graphes and beautufut anmation are akcredible. The way the kistem moves in front and disappears behind objects an mind-boggling The background nutust is remific 100. To top it all, thas game is maddeningly Eddictive and challeagag it shouid be in everyonetit safiware collection
$\mathbf{S} \mathbf{S}$.
unstructions 95
playebulty
$109 \%$
graphics 100\%
value for money

## Warshlp Oric $£ 5.95$

J1.P. 17 Broadlands Dr, Malvern, Wores wR14 IPW

Here's an extract from the ulle page. "You are the commander of a nuclear-claslic powered warshap. Your mission to to find your way through the mune field for your ship and the troop shop you are escorting. The treopship must be safely docked int the landing stage- To do thts you have to destray the shore batteries which are protected by helecopters armerd with ontu-shup mussiles. A hostile submarne hns been contacted and is closing ip. You will be under constan fire at you negoliate the mine field

In fact, it thes 100 per cent BASIC, supposedly straiegy game, at you do is turde the linte ship wath the cursor keys through
blue dors, blast the occasional helecopter hoping you don't get blasted ento a million pieces by one of the random massiles, The whote process, to put it maldly, is a drag.
The graphtes ate really poor and the sound as unmagmatively bortig. The game ilself is very repetetive and gets monolonous after the lirst game. The cheaply produced inlay card sparse instructuons and chnidast humour of the title page doesn't heip enther. In any case, what in the world us in "Helecopter"? S.S.
instructions $30 \%$
playabilary 404
graphacs
$20 \%$
value for money $30^{\mathrm{m} / \mathrm{g}}$
5

## Game for a laugh?

Latest games for the BBC, Oric, Memotech and Electron get the once-over from our review panel

## Eribhage

 32K Bac E5.95Micro-Ald, 25 Fore St, Praze, Camborne, Cornwall TR14 OJX

## Unal I recelved this program the

 only curd game I had pleyedi on a computer was Pontoon. Without the gambing element it was boning.Cribbage does not suffer from thus drawback as it is played for polnts mot money and the skilj-to-luck balance is weighted more heavily in favour of skill.
The program arrives with live pholocopred stheeto of inctructoons, the first half of which is conserned with the nule and methods of sconng. Part two of the mstructions explans the sequence of everits.
Upen runneng the program you are given the option of playng with five or six cands and
sconng 1061 or 121 respectively A choice of level is also meludrd 10 allow the less experienced player to compete on more equal lerms with the computer.
This program must have thal certaun something which makes a game addictive. it is the first game in a long while waich has held my wife's attenition, so much so that I was almaxa forced to write thus review using a pen and paper as I couldn"t gen nemar the computer.
J.R.
instructions $\quad 80 \%$
$\begin{array}{ll}\text { instuctions } & 80 \% \\ \text { playabilaty } & 75 \% \\ \text { graphes } & 50 \%\end{array}$
graphes
$30 \%$

| instructions | $70 \%$ |
| :--- | :--- |
| playabiluty | $80 \%$ |
| graphes | $70 \%$ |
| value for morey | $70 \%$ |

## Wemo <br> Memioterh MTXEGASE

Continental, Siation La, Witney, Oxon

Nempo is an aquatic version of the Jeff Mister game Girdrunne. You canirol a ship just off the const, firung harpoons up the display at mone of less anythrig whith gels in the way. Shark fins move back end forth through the water, making their way down screen centipede-style. An indestructible land crab bounces diagoratly sround the display. White electric eels patrol the border of the screen, selectively eliectrifyung sectonis of the water. Fast-moving blue mines zoom up screen towards the sharks.
The display it a garish aerinl view, with wives lapping up and down in the green set, a yellow beuch and orange land. Your five ships, whet look suspreiously like laser-bases, can move anywhere - even on tand. You must avoid huthge the moving objects, and hirpoon all the sharks, to move on 10 a steech of still more heavily infested coasthe.

Nemo uses a lot of character graphtes; thal permits a harge number of moving objects but forces rather jerky motion. alhough the waves are anmated very cleverly. Sound effects are simple bur adequate; the game is quite addictive, but it is a shame that - yet agan - Contunenial has been unable to come up with a genuinely prigtnal program. S.N.G.

## Gutecrasher 32K Electron E6.95

Quacksilva, 13 Palmerston Rd. Southampton SOI ILL

From the name you may got the impresston it has something to do with gatecrashing a parky, if's notung of the sort. Thus game deals with the tert of torrel rolling
On screen ts dssplayed a maze with trap doors leading to ennpty slows. The idea is fo consrol yatr man at screen top and roll the bartel down into the empty slot. Firs the trap doors have to be adjusted. If the barref colls into an ocerpred alol you lose two barrets.

There are seven levels of dafficulty, On level five you have to pul two barreifi in each slot. If you find all the trap doors lead to occupied tots and you have only one empty tlot left, you car cause an earthquake whel will re-adjust the srap doors, but this will cond your one barrel

At the and you ate given s coda to crack If yout are successful youl can enter the 1200 competition betng run by the manufacturess.

This is anjoyabic game with sample but good graphes. The case of playing makes it a game for 밍 ages.

M, B.
fitiruchorts $\quad 100 \%$
playability $\quad 100 \%$
graphucs $100 \%$
value for money $\quad 100 \%$

## This week we conclude the tape filer propram featured last week. We also show you how to delve into your program's inner secrets

## Tape filer part 2 by laln murray

This listins completes last week's tape index program with the reader section of the program. The routine allows you to search quickly through your tapes for a particular artist or tume or both.
Up 10 five names may be searched for at once. A whole tape may also be viewed. The program will gutomatically search through all your data files, primt out any findings and the location of that tune in your music collection. It will stop if it linds anything, but if you press "SHIFT LOCK" it will search continuously until at reaches the last flle. The tume of the search will be printed at the end.
NOTE: As usual, cursor controls are given in REM statements, but these do not need to be typed in

## How il works

150-220 menu and choose selec. 1:0л
270-480 list complete tape
294-305 tead in dara, checking for tntersupts
400-480 separate out tune and artise, and priml ous
$520-522$ input number of names to be searched tor
530-575 input requred natnes
E0-597 input start tape number and make up filename
599.670 input data and take appropriate action
$680-690$ check for artist
700-710 check for tune
720-726 check for artust and tune
730-777 print ertist, tune and tocation
780-830 go on to next tape if required
340-850 prist number of references found and search tsme

## Tape filier

Hints on conversion Apart from the speczal file handtung commands, this program should be easy to convert to run on ather micros.
or with cassette data storage
NOTE: PEEK(654) - "SHIFT" pressed (1) or not (0)

## Find your fe see how your <br> 

Tape fiker
Y artsblet ARS(IO) ortisis thames
TLS10) tune names
M2410) number of references found
ALA10) leagih of arist ${ }^{4}$ name THiOl leragh of tune name I)S(108(0) data lines

M number of haghest 18pe on file fMS current तlename
A lape sumber
DAS mpat dat line
A3 number of files to be serarched for
QT, F tape to be skatched
TT time
TU ture number
41 sude number
T5 twne mame or tule
RS Ertist's name
L. tape length

1) data councry

5 sade counter
Cl,C2 data sounters
$K$ item to be ediled

## anscm fhrossambliter by A Huke

This machine code disassembles is written in BASIC. It contaurs no special POKEs or commands and will run on the Commodore 6 or mny expanded VIC-20 if you make two changes for screen width
This program allows you to vew in assembly language the workings of CBM 64 ROM and machune code routines included in many HCW games and uniny programs.
All numbers are displayed in hex but memory sart may be entered in decmal or hex. Disassembly is started by
entering $S$ and memory location, and halted by the space bar. Press C to continue or S to enter new start memory.

Number calculation (press N ) halts disassembly. Press $\mathbb{C}$ or $\mathbf{S}$ to coninue. The screen displays memory location, mnemonk operand and memory dump. The lo-byte is reversed for the operand and branches are calculated

Memory dump shows correct lo-byte order and branch offset

M/e disnessembler Vrriabilea
DIM\% $\%$ (2) value of operand
DV decomal number
SM memory beng processed
NI,N2 used in H hex number conversion and prim
NN,H1,H2,H3, H4 used in dec
io hex conversion
K.MM, DD used in hex to dee conversion
Pin valut of number beng processed


## vourite tune or



|  |  |
| :---: | :---: |
| 3－9 |  |
| 25 |  |
| 3.11 |  |
| 3－5 | IFPN＝4STHENPRIHT＂EMI＂，GOSUE150 IOTES0日 |
| 349 | IFFN＝55THENFRINT＂SEC＂．GGTOSE0 |
| 345 |  |
| －50 | IFFY4＝2THENFRINT＂PHR＂，［0T06g |
| 355 |  |
| 360 | IFPV＝88THENFRINT＂CLI＊， 60 T19801 |
| 36 | IFPN＝9ETHENF＇RINT＂RTS＂，GOT0EOG |
| $3-9$ | IFPN $=104$ THENPRI打＂PLR＂， 601084 |
| 375 |  |
| 384 | IFPP＝120THENPRINT＂SEI＇，GOTOBD1 |
| 385 | IFFN＝136THENPRINT＂NEY＂，GOTOEQE |
| 390 |  |
| 375 | IFPN＝ $152 T H E N / 4 P R I N T$＂TYA＂， $50 T 08619$ |
| 490 | IFPN＝ 144 THENPRINT＂BCC y，G0SUE 150 GOTÜEUG |
| 405 | IFPN＝154THENPRINT＂TXS＂， |
| 410 | IFPN＝ 168 THEMPRINT＂TAY＂，GOTG6E0 |
| 415 |  |
| 420 |  |
| 422 | IFPN＝186THENPR INT＂TSx＂，G0T086日 |
| 425 |  |
| 438 |  |
| 435 |  |
| 440 |  |

```
445 IFPN=208THENFRINT"BNE "s:GLSUE150 GOTO806
```



```
455 IFPK=232THENFRINT"INM:", GOTO806
460 IFPN=249THENFRINT"EEQ " * BOSLE:150 GOTOE60
465 IFPN=248THENFRINT"5ED", GOTO805
470 IFPN=234THENPRINT"NUF", GOTO&GG
475 IFFH=162THENFRINT "L.D% "", GOSIIE60 GO170806
```



```
485 IFPN=168THENPRINT"JNP (",:G0SUB70 FRINT")*; G0T0840
```



```
495 IFPN=44THENFRINT"BIT ", GOSUE7G GOTO800
500 IFPN=36THENPRINT"BIT ";:GOTOPM0
```



```
510 IF,FHFHN231,=6THEHFFIHT 'H'SL " GTOTO.G6
E15 IFPN=10THENFRIHT"FSL RCC.", GOTOSOD
```



















```
S=5 IFPN=166THEFHPRI&T"ROR ACC," GOTOMDQ
540 IF (F||F|I227)=129THEHFRINTJSTA "
845 IF{FNAN[231)=1340R<(PN=138) THENHPFINT"-T
650 IF (P&AF|D227)=161THEPHFRINT"LDA ",
EE IF (FNAND231)=1660R(FN=1FO)THENFNIINT"LI
600 IF (PNFHI227)=193THENFR'INT"CHP :
```




```
675
    IF\FNRNI2S1:= =300R (PN=234) THENNFINTT "ItL" "
```






```
    IF(FNFND28)=4THENGOSUB6G.GOTUSGE FEM ** ZEFO PAGE ***
    IF{FHFNND31)=9THENFRINT"#"* GOSUF6R KEM ** IMMEDIATE **
    IF (FNHNDZS):=12THENGOSLIETO FEM ** FBSOEUTE #*
```





```
    IFPN=189THENGOSLETG FRINT", X", FEM 事期BGOLUTE, X ***
```




```
    HIEXT, FRINT
    GETAF% IFH*ぐ""THENHOTO8:35
    SM=5M+1 GOTOE96
    GETH*
    IFA=="["THE|&S'0
    IFAま="S"TMErG00
    IFAS="デTHEN&EO
    IFA$="N"THEH'F56
    E0T0830
    REM CHFRHCTER 昨 15 ERER DONA!
    FRINT"MEIISASSEMELE FROM A NEW MEMOR"Y FFESS S"
    PRIHT"项HRLT HISASSEMBLEV FRESS THE SPRCE EAR "
    PRINT" [TNONTIN+LE DISASSEMBLEY PRESS E"
```

```
375 PRINT"GTNRETURN TO INSTRUCTIONS PRESS I'
08G FFINT"NWHLL NUPIRER'S RFEE LISTED IN HEX"
9S5 FRINT"昨HEX HUMIEER CONNERTER FFFESS N"
800 10T0839
299 REM CHFFFECTER ", I|" IS CRSR DO|N|
300 FRINT",昂NTER START LOCATION IEC. GR HEX'
```




```
325 IFLEN\(%)
901015LS200.5.f=1倠 G0T0290
350 PRINT"ENTER DEC OR HEX ($N OR 'N) NUMBER"
```



```
*G0 FRINTA$"=";
36E IFVAL:H$)\65535THEN95G
```



```
775 IFLEN<秷\<2THENPRINT" FORMAT INCORRECT".GOTO950
980 GOSUB2B0.PRINTMM, :GOT0955
```


## Listlag for m／c disessembler

```
149 FEM 米乘 THPE FILER ***
14- REM *** EY IAIN MUPPAY (C) 1984 ***
144 FE| **** FOR HOIAE COMPUTING WEEKLY 楽粕
14E REM *** PHRT 2 OF 2 ***
143 REM [CLR] [3 CRSR DOWN]
14G REM *** READER SECTION ****
153 PRINT "#IMMRKDU ERN:"
159 REM * EACH LINE STARTS WITH A [CRSR DDWN]
1FE PRINT "d\\ SEE A COOHPLETE TAPE"
1TG PRINT "暗) FIND HLL TUNES BY A PARTICULAR ARTIST";
1%! FRINT "時) FIND A FARTICLULRR TUNE BY ANY RRTIST"
```




```
15% REM [2 [RSR DOWN]
```



```
210 GET C$ C=YHL(C$):IF C<1 OR CS5 THEN 210
2こ\ IN C GUTO 230,520,520,520,100
2こS FEMM 係 CUMFLETE TAPE ***
2'39 FRINT "#":REM [CL_P]
2% [NPUT "d##HICH TAPE ",N PEM [CPGR DOWN][NHITE]
24@ IF N<1 OR NDM OR NK\INT(N) THEN PPINT N$.GOTD 23S
2-5 H2=N
2Hn IF (<M2-1),5\ぐ)INT(<N2-1)/5) THEN N2=N2-1.00TO 29@
2.91 FM|%="TAPEFILE"+STF*(N2)+STR$(N2+4)
```



```
254 PRIMT "瞅ESEAPCHING FOR TAPE #",N
```




```
207 PRINT"LISTING"
z゙G9 OPEN 1,8,15 OPEN 3,8,3,FM$+m,S,R"
30日 INFUT#1,A IF A&>D THEN 290日
305 IF N=N2 THEN O3W
31% INPUT#3, DH$: IF D&$>"3" THEN N2=N2+1'GOTO 305
`2G GOTD 3%0
39 REM [CRSR DOHN] [GHITE]
```



```
342: INFUTT井3,5年
4% FEM [CRSR DOWN] [CTRN]
35% PRINT ", \IIIE ";S多
SER IMPUT#3,T年
3F4 REM ECRSR DOWNI [FINK] [CRSR DOWNG]
```





```
*&% IF DA年=13 THEN 455
```



```
397 IF M⿱⿱亠䒑𧰨<<"S" THEN 4913
```



```
395 IF G*O"E" THEN 39@
404 FOR M2=1 TO LEN(IFOW)
409 REM [SFADE] IS SHIFTED "R"
410}\mathrm{ IF M1D本红A*,M2,1)="$" THEN 4.3日
420
430 TL.*=LEFT悉, DAF.(M2-1)
434 REM1 [WHITE] [LISHT ELUE]
435 PR:$=RIGHT$(LA$, RLEN(DR$)-M2))
```



```
444 PEM [WHITE] [LIGHT ELUE]
445 FRINT "#"TU&
445 FRINT "J"TAEC5>AR方
450 gOT0 374
455 CLOSE 3 CLOSE 1
459 PEM [2 CRSR DOWN] [WHITE] [RVS ON] [RVS OFF]
```



```
47G GET A$.IF Fs="" "tHEN FOR I=1 TO 10 K2<I)=0.NEX'T I:GOTO 159
40G GOTO 479
518 FEM *** PARTICLLARS WFNTED ***
```



```
S2O FRINT "MHOW HIRHY NAIES IO YOU WANT TO SEARCH FOR (1-5)?"
521 GET F*'IF F$<"1" OR A*3"5" THEN 521
522 N3=\/4L(A)
523 FOR N4=1 T0 NE
52, IF C=3 THEN 560
529 REM [CRSR DOWN]
5ST INPUT "MORTIST'S NAME ",AF$(N4):FL(N4)=LEN(AR\$(N4))
54(1) IF AL(N4)<1 OR AL(N4)>39 THEN PRINT N$'GOTO 536
a50 IF C=2 THEN 5%5
559 FEM [CRSR DOWN']
SEG INPUT "WIMME OF TUNE ";TU&(N4):TL(N4)=LEN(TU*(N4))
5P0 IF TL(N4)<1 OR TL(N4)339 THEN FRINT N$:SOTO 560
5:5 HEXT N4
FTG REM [LFER IOMA{]
5,G FRINT' MITWE HEMPER DF TAPE TO COMMENCE"
CS5 INPUT"EEARCH 4.NT
```



```
E,2 IF (<QT-1)/5)(\INT(<QT-1)/5) THEN QT=QT-1:GOTO 592
5G: FEM [CRGR DOHM] [RUS [ON] [RYS OFF]
```



```
595 IF ((QT-1), 5)<3INT(<QT-1)/5) THEN OT=QT-1:GOTO 595
5%F. IF QTOM THEN S4M
```



```
59% EEM [2 CRSR DOLNJ]
5,Gq PRINT "MWREFRCHING ";FM$
ENGIGEN 1,8,&5,OPEN 5,8,4,FM$+",S,R"
```




```
F-5T-=TI+1
626 G0T0 6%9
E27 INPIJT#5, IMM
6.N\mp@code{MNPUT#5, DHE}
635 IF IM##="1" THE\& 62%
E4Mन IF I|#='2゙ THEN SI=2 TU=1 GOTO 62?
E5G IF \&きニ゙う" THEM &I=1 T=T+1 TJ=1
```



```
605 IF DAF="3" THEN 627
F74 0N C-1 G0T0 680,709,720
679 REM *** PMRTICLULRR FRTIST
544 FOR R $5=1 TO NS
```



```
GG MENT NS
201 c0T0 625
EYG REM *** FARTIDULLRR TUFE
TGG FON: NS=1 TONS
```


TH HE T 4 T 5
-19 「ロハTJ Eご
71~REM * * F FAETICILAF TUNE RNND FIFTIST * *
PGFOF F F
$\because 1$ FEM [SFADE] IS SHIFTET "四"

Tご」 ト HE T NF
? 2F, GTOGE5



- 41 NE:T I



75, [リJTO >0
SE FEM [rFcR POINJ

TBFFIHT "IS TINE \#"; TU.'DN SIDE", EI. "MF TAFE \#", T



$\rightarrow 7$ REM [CRSR IOWN]
万行 FRINT " GKEEP SEAPCHING ( $~ / ~ / 小) ~ ? ~ " ~$
"-

EM5 LIJE 5-CLOSE 1
シम जnT0 15
Sこわ FEM ** GGING ON TO NEXT TAFE ***
S2E GLfsE 5 CLOEE 1
S"1 GOTD 596

E\% REM [2 CRSR DOWN] [CPSR DIDN]
84 FRIMT "OELAST TAPE FILE SEAPCHEIM"
841 FOF N4=1 TO N3
842 가 $-=1$ SOTO 847.845 84?:REM [CRSR DOWN] ON NEXT THREE LINES



E47 NEST NA.REM [RFSR DOWH]

S4* IF FEEK (654) $=1$ THEN FRINT "WFEMOVE ESHIFTC NOW" FEM[DONN, [PINK][RUSDN, OFF]
859 GOTO 46品



## The Switar system Es-2t

Eaglesoft, 66 James St, Scarborough, North Yorks YO12 7PH

A restruetured version of the program reviewed earher in the year
In effect the it a referente guide to the wolar system, allowing you to specify ny pianet, nsteroid or meteorite. and receive brief detans together with 1 graphe indication of size felative to the Earth.
Noting that suct information becomes outdated rapidly, the author offers en update thees to muil order customere, is and when new facts are discovered Atother welcome Innowation is the factity to save the prote to Microdrive; major software
houses please copy! in addition te its database functom, you cin also use a quaz section to tet your knowledge

Whulet this is a noble efton by an admultedly sanall company to provide manorny interest service, and the progrant is well written at BASiC the overd? umpression is amatursh. The colour facilsises of the Spectrum could hive beea used to pood effect without much extra effort. The plature screens coutd heve beet predirown using artphics packages. Factual information is very thin, certanly not enough to sntisfy the enthusines. D.M.

Instructions
904
ease of ute
1005
dispiay
$40 \%$
value for moncy

## corters tess

L'Ensoulesado. Old Brackenlands, Wigton, Cumbria CA? 91.A

A role-piay program for history students aged 13 to 15 years or adventure games players. If recreates ant episode in pestory where you take the past of the Spentsh Congulisiador. Herman Cortes, who, in 1519 , sel out to conquer the fabulousty rich Azer Empire of Montezums.
You are faced with the decsions Cortes had to make. Choices made are matched aganst those made by Coctes, Fad awre potnts are awarded of your we correct. Bonut pornts ate glven for "careful play" or "consintency", and it sudden equipment checks when you
must know how गuthe equpment you have, and for "crisis reparts"
After visitans Montezuma on his tsland stronghold, fightung off an mitack from the Governot of Cuba and butiding Vera Criz, your return and eventualify, after many bloody bardes, end uy as masier of a rumed crey full of sunking corpses and ridnled whth diseate - bit with no gold!
A useful revision to that period. Even 1 munaged to rase tay score from 36 to 月3 out of 130. However, graphics, type and sound colld be much tmproved. T.W.
instructions $80 \%$
cese of use $00 \%$
tisphey $85 \%$
$45 \%$
value for money $35 \%$

## Ex

## Stuart Menry's Pop oulz [8.ris

Balflower, 6 Rosewcod Ave, Greenford, Middx

A pleasing tune accompunies the loading scresh depteting Sturrt Henry, the DJ wha was struck down by meltiple aclerost. Part of the price goen to the mulupte sclerosis tociety.

We have the chotee of onte or iwo-player game and are tnvited to epter nime(B). The colourfill atiz serean Appearit, accompanisd by a mystery tune There is e scoreboard - you have 60 bonnus points as the start - musical stave with sitx missing fiotes, and question al the thotton.
There are 756 questions. covering pop from the sixises to the present. If you answer corfectly 10 poinla ire sdded to your asore and you cen choose a note from the myarery tune Correat notet give 10 pounts, yappear on the stave and are 1 sounded, whercus a wrong guess drops yaur bonus by 10 points. When your bonus rins ant the game ends. When you comptete the mystery tune ny bonus left is added to your score, before the nexl round wath its harder. longer mystery tunc.
A rreat program - making good use of the Spectrum's potentsal in graphucs and sound
instructions
playabílity
graphics
value for moncy

## Something for cill tastes

> Alien-zapping games are often slated for being mindless. This batch of games should please everyone - thinking games to sharpen your wits and teach you a few facts, and hard-core android blasters to keep the addicts happy

## Space <br> Command 15.95

Virgin Games, 61/63 Portobello Rd, London W11 3DD

Presented in ta standard enssette ense, Space Command comes with ia wery informatuve inlay capd wheh tells you sbout the game and its athors; mee biald

Sef on an asteroid, complete with a culy, rotatung radar and communicatrons dish, your task If to shoot down an almost infinite variesy of mparauding aliens, A force field protect the aty but as the aliens crash mito it. aty but as the aliens crash intoit. uttmately is only eapable of protecting the populated treas. If you fail to protect the radar installation you lost a life Succeed and you enter a obew star

## system

Well presented, with factilies for keyboard and three different 10y) teck protacols. You can witch the demo before saliynmg forth to do battile, choose your space-shyp and disarm the ailens, whach makes life a but easies"

The graphics are well done. though not of the hughes standard un terams of mmoothness. The sction is very fare and furnous as is the movempent of your shap: very hard to control Without joysticks. Sound is adequate, and, il yols haven"I had your fill of zap-kispow, you should enjoy ti
insurnctions
$\begin{array}{lr}\text { instructions } \\ \text { piayabiliy } & 100 \% \\ 70 \%\end{array}$
prayabilaty
value for morney
Lt+1, th = th

## Messarge from Andiromeralo $28.9: 0$

## Interceptor Micros, Lindon

 House, The Green, Tauley, HantsYou wre the Caplain of the spme patrol cruser Cialexy on a routune patrof - of what, we are not told. Thus advencure game starts whth you receiving a distress signal from a previously unknown planet.

After 18 stiempes at keying in phrases - whith taught me thil the program dow not live up to Its promtse that "tommand synuxat makes full use of all parts of epeech - I entered "read message" and it appeared on screen! If would be easier if they listed aceepthble words
I landed on the piatmet Andromeda and moved around freely through fooms and squares, sectng buttons. detonators, krives and metai burs. When I keyed in "Look at planet" it recesved the surprimngly humutous response "I can't see \# wine here't

No scoset apperared and there seemed no purpose to the gance. I didn't feed compeiled to push onwards, even with the offer of Help, Inventory, Look or the chance 10 Sawe in order to return later. 1 was quite happy to be shaf and leave Andromeds to the androids

Fat tise of graphues and no sound.

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(microvienl $1-1$ rever Drpen M1 NTDM MI-1

Compilad by W, H, Smith ma Weboters. Figuret in brekets are inst weak pastions.



## Greenham Common women

 have frequently been in the news thas year, You ether love them or hate them. This game takes a lighthearted look at a serious matter.The aim of the game is to steer your woman past the pollce cordon to reach the nuclear missle and destroy it. This is poetic licence, since in real life that's not what the resolute proteslers of the peace camps have in mind
You're a strong wonsan and can knock down poluceraen who aren't in the linked chan at the bottom of the screen. Once you reach the last line of defence, you have to find a gap to sneak through and get rid of the nuke.

|  |
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Your hife is at risk, sunce the police won't hestate to fire at you (more poeuc licence, we hope), You syart with three Lives, so you're at an advantage over the real thung
Take a humourous look at one of the more controversial issues of 1984.

Hints on conversion These are the main POKEs whach the VIC uses
36879 screen and border colowir 30720 colour of characters
26878 sound volume
36874 bass sound
36375 muddle ion gen
3, 3 , 76 high tore gen 36877 while noise gen As used instead of iNkEYS FOR.NEXT pause youlines

## Here's a thorny subject: the presence of US arms in Britain. Stephen Dommett takes alighter look at the issue. Relax and see the funnier side

```
1 FOl EE50, -55 TrIMPF0, 
14 FOHESES? 152
11 FEM [1E CFSR mOMN][ELU]
```



```
14 %-7
15 FEM [2 [FSP LIF][F%/S ONI[FLN]
```



```
17 FEMEHOM坆]
18 PRINT"或"
2% GETA生 IFAS="こ"THENY= %-1
```



```
FOEM [RED]
30 FRIMTTAE(Y)"$1日
34 X=INT(RHD(1)*420)+7630
35 FOKEX+30フ`20,6'FOKEX,34
36 FOKE36878,15 FOKE3E877,175 FOKE36377.0
37 FEEN [CRSR UP]
38 FRINT:M
40 K=K+1:IFK=19THEN43
42 G07022
4% IFS29THENEOQ
44 IFY=ATHEN48
4E 「=1% FOT0450
```





```
-1
51 S=S+1
5.4 FORT=1T03000 NEXT G0TO10
4日ด POKE35877,220 FOFL=15T0WGTEP-1 FOFE36878,L
404 FOFNM=1TO100 NENTM
406 HEXTL
4%% P隹ES687?,3 POKE36878,0
409 IFC)2THENGOTO45,
```




```
412 FORT=1TO2G01 怚T GOTO1E
45GOMENEST3,59 FOINT"#"
151 FEEM [PLK]
```



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4E: PEM [S CRSR DOHN] [4 CPSR FIGHT] [2 CRER LOHN]
```



```
4:E FORT=1TO40日G NEKT*FRINT"Z"FGKE36379,27:END
4*a PEM [CLR][WHT]
```



```
F[1 FEEM [CRSR IO|NN]
E"* PRINT"WSREENHAM COHMOH"
EG: PEM [CFSR IIO|,N才]
EO4 PEIMT"WET PAST FOLICE COFDON"
5GE FRINT"TO IESTKOY 30 MISSIEES"
5@T REM [2 [RGS DOG&NJ[2 CRSR RIOHT]
"חQ FFIMT" 睤其C=_FFT M=FI-HT"
```



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5% FORTェ1T0306!
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504 FORJ=0TO31:FERADX FGNEP42天+} \therefore FE:T
66 ITRT24,24,12E :Q9 103.35,30.102
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EGS LIATH31 53,1:, 24S, 4:% 12-%
```




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F12 ''-7712 %-75E4 F=7844 K=786.4
514 Frot: E't.3?
F15 FPINT"#" PRINTMHIT GPMCE EAR T? PLAY"
```



```
S17 IFA%=" "THENGOTOLE
618 EEN [的K]
```



```
E2 PRINT"RID FRITAIN OF THE 30"
E24 PRIMT"CRUISE MISSILES."
E25 REM [3 CRGR DOWN]
SEE FRINT"METEHOU HRUE AVOIDED A HOLCLEFR WNR: THE ENII" END
```


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